

Application. No. 10/706,062
Amendment dated January 18, 2005
Reply to Office Action of October 1, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A headlight for use by ~~physicians~~ surgeons comprising:

- a) an adjustable headband for placing on a user's head;
- b) at least two forward-facing lamp housings disposed adjacent one another within an outer lamp housing disposed proximate a central position substantially centrally on a front side of said headband; and
- c) at least one light emitting diode (LED) disposed in each of said lamp housings.

Claim 2 (original): The headlight as recited in claim 1, wherein said at least two forward-facing lamp housings disposed adjacent one another proximate a central position on a front side of said headband are independently pivotally affixed thereto, whereby light output from each of said at least two LEDs in said lamp housings may be converged at a spot a predetermined distance forward therefrom.

Claim 3 (original): The headlight as recited in claim 2, wherein said lamp housings further comprise means for focusing light from said at least one LED.

Claim 4 (original): The headlight as recited in claim 3, wherein said means for focusing light comprises at least one reflector disposed proximate said at least one LED.

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Claim 5 (original): The headlight as recited in claim 4, wherein said at least one reflector comprises a reflector disposed behind said at least one LED and a reflector placed forward of said at least one LED, said reflectors arranged so as to cooperatively gather light output from said at least one LED and project said gathered light in a forward direction.

Claim 6 (original): The headlight as recited in claim 5, wherein said at least one of said reflectors comprises a substantially parabolic shape.

Claim 7 (original): The headlight as recited in claim 2, wherein said adjustable headband comprises means for adjusting said headband to fit any user.

Claim 8 (original): The headlight as recited in claim 2, further comprising means for controlling light output from at least one of said LEDs.

Claim 9 (original): The headlight as recited in claim 8, wherein said means for controlling light output from at least one of said LEDs comprises at least one of the devices: a switch, means for varying the intensity of said at least one LED.

Claim 10 (original): The headlight as recited in claim 2, further comprising a battery for supplying power to said at least one LED disposed in each of said at least two lamp housings.

Claim 11 (original): The headlight as recited in claim 10, wherein said battery comprises at least two batteries.

Claim 12 (original): The headlight as recited in claim 11, wherein at least one of said at least two batteries is attached to said headband.

Claim 13 (original): The headlight as recited in claim 11, wherein at least one of said at least two batteries is disposed externally to said headband.

Claim 14 (original): The headlight as recited in claim 11, wherein said at least two batteries further comprise means for replacing one of said at least two batteries without interrupting light output from said at least one LED disposed in said at least two lamp housings.

Claim 15 (original): The headlight as recited in claim 11, wherein said at least two batteries further comprise means for regulating power from said at least two batteries to maintain substantially constant light output from said at least one LED disposed in said at least two lamp housings.

Claim 16 (original): The headlight as recited in claim 2, further comprising cushioning means disposed proximate an inside surface of said headband.

Claim 17 (currently amended): A headlight for use by ~~physicians~~ surgeons comprising:

- a) an adjustable headband for placing on a user's head;
- b) at least two forward-facing lamp housings disposed adjacent one another within an outer lamp housing disposed proximate a central position substantially centrally on a front side of said headband;
- c) at least one light emitting diode (LED) disposed in each of said lamp housings; and
- d) a source of electrical power operatively connected to each of said at least one LED.

Claim 18 (original): The headlight as recited in claim 17, wherein said at least two forward-facing lamp housings disposed adjacent one another proximate a central position on a front side of said headband are independently pivotally affixed thereto, whereby light output from each of said at least two LEDs in said lamp housings may be converged at a spot a predetermined distance forward therefrom.

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Claim 19 (original): The headlight as recited in claim 18, wherein said source of electrical power comprises a rechargeable battery.

Claim 20 (original): The headlight as recited in claim 19, wherein said source of electrical power comprises at least one rechargeable battery, said at least one rechargeable battery disposed in at least one of the locations: affixed to said headband, and located externally to said headband.

Claim 21 (original): The headlight as recited in claim 20, further comprising means for controlling light output from at least one of said LEDs.

Claim 22 (original): The headlight as recited in claim 21, wherein said means for controlling light output from at least one of said LEDs comprises at least one of the devices: a switch, means for varying the intensity of said at least one LED.

Claim 23 (new): The headlight as recited in claim 5, wherein said headlight produces a light output having an intensity of approximately 40,000 lux.